



QC ABSTRACT

NAME OF WORK: Construction of CC Road of Hosabheedhi 2nd Cross Appayanna Road in Kempegowda Ward No-01 of Yelahanka Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
1	Cement	Materials			1	1
		Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
2	Coarse aggregate(40 mm down size)	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
3	Coarse aggregate(20 mm down size)	Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
4	Fine aggregate	Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
		Core Compressive Strength	One Test		1	1
5	Steel	Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
		Core Compressive Strength	One Test		1	1
6	Precast (100mm)	Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
		Core Compressive Strength	One Test		1	1
7	Precast (230mm)	Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
		Core Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	3 set /15-30 cum	20.64	6	6
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	4 set /31-100 cum	33	8	8

Valmiki

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Certificate No.: TC-5548

48

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-02-21-11 Date: 15-01-22
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Construction of CC Road of Hosabheedhi 2nd Cross Appayanna Road in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency : Sri. Bharath G R (S R Constructions), Ground Floor No:1362, 15th Main, 22nd Cross A Block, Sahakarnagara, Bangalore-560092
Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/64/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-01-22
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6

Date of test : 13-01-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.85	—
2	Fineness by Air permeability method (m ² /kg,Min)	348.6	225m ² /kg, Min
3	Density (gm/cc)	3.15	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

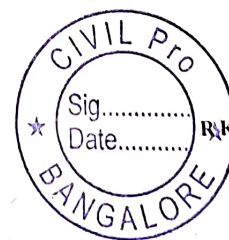
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Samples will be disposed after 30 days from the date of issue of test certificate

R
A.E.E

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Sig.
Date.....

BHARTHIK RECHAN

Authorized Signatory

Quality Manager

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****End of Report****

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TEST REPORT ON COARSE AGGREGATES

: CP-2023-02-21-11

Date: 16-01-22

TC-5548

Lab ID

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	-
4	Bulk Density(Loose) (Kg/l)	1.41	-
5	Bulk Density(Compacted) (Kg/l)	1.47	-
6	Water Absorption(%)	0.23	-

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Quality Manager
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Certificate No.: TC-5543

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/01/2022

Lab ID : CP-2023-02-21-11
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Construction of CC Road of Hosabheedhi 2nd Cross Appayanna Road in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency : Sri. Bharath G R (S R Constructions), Ground Floor No:1362, 15th Main, 22nd Cross A Block, Sahakamagara, Bangalore-560092
Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/64/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-01-22
Customer ID : Drain Bottom Raft
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft	M20	16/01/2022	23/01/2022	151.74 X 149.50 X 150.75	22686	8.402	416.7	18.4	18.5
2	Drain Bottom Raft	M20	16/01/2022	23/01/2022	149.31 X 149.71 X 151.01	22353	8.516	406.6	18.2	
3	Drain Bottom Raft	M20	16/01/2022	23/01/2022	149.77 X 150.33 X 150.51	22515	8.359	423.4	18.8	

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